

**Notice of Allowability**

Application No.

10/080,454

Examiner

Andrew C. Lee

Applicant(s)

FENG ET AL.

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/07/2006.
2. ☒ The allowed claim(s) is/are 1-4, 6- 12, 25,26; 13 -24; 27- 30 renumbered 1 - 29, resepectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Jeffrey J. Chapp on 02/28/2007.
3. The application has been amended as follows:
  - Claim 6 has been amended as follows:
    6. The method of claim 1, further comprising receiving said header portion at a second transceiver that is located remotely from said first transceiver.
  - Claim 13 has been amended as follows:
    13. A method for operating a wireless local area network (WLAN), comprising:
      - providing a first WLAN transceiver with advanced signal processing capabilities;
      - providing a second WLAN transceiver with advanced signal processing capabilities, wherein a maximum interframe period between data and an acknowledgement is required for compatibility, and wherein a duration of said interframe

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period is shorter than a duration that is required to perform said advanced signal processing mode;

transmitting a header and data using [[a]] said first WLAN transceiver;

specifying a first data field in said header that enables indicates said advanced signal processing mode; and

specifying a second data field in said header that defines a data time period and an extension time period, wherein said extension time period is associated with dummy data transmission.

- Claim 27 has been amended as follows:

27. A method for providing advanced signal processing in a wireless local area network that requires an interframe period between data and an acknowledgement for compatibility, wherein a duration of said interframe period is shorter than a duration that is required to perform said advanced signal processing, comprising:  
transmitting a header using a first transceiver;  
specifying a first data field in said header that indicates an advanced signal processing mode; and

specifying a second data field in said header that defines a data time period and an extension time period, which provides additional processing time for said advanced signal processing mode, wherein said extension time period is associated with dummy data transmission.

- Claim 30 has been amended as follows:

30. A method for operating a wireless local area network (WLAN), comprising:  
providing a WLAN transceiver with advanced signal processing capabilities,  
wherein a maximum interframe period between data and an acknowledgement is  
required for compatibility, and wherein a duration of said interframe period is shorter  
than a duration that is required to perform said advanced signal processing mode;  
and  
receiving a header and data via said WLAN transceiver;  
wherein said header specifies a first data field, which indicates said advanced  
signal processing mode, and specifies a second data field, which defines a data time  
period and an extension time period, wherein said extension time period is associated  
with dummy data transmission.

***Allowable Subject Matter***

4. Claims 1 – 4, 6 – 30 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art of record, in single or in combination, fails to disclose explicitly the limitation of specifying a second data field in said header that defines a data time period and an extension time period, wherein said extension time period is associated with dummy data transmission as disclosed in claim 1; specifying a second data field in said header that defines a data time period and an extension time period, wherein said extension time period is associated with dummy data transmission as disclosed in claim

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13; specifying a second data field in said header that defines a data time period and an extension time period, which provides additional processing time for said advanced signal processing mode, wherein said extension time period is associated with dummy data transmission as disclosed in claim 27; wherein said header specifies a first data field, which indicates said advanced signal processing mode, and specifies a second data field, which defines a data time period and an extension time period, wherein said extension time period is associated with dummy data transmission as disclosed in claim 30.

Additionally, all of the further imitations in claims 2 – 4, 6 – 12, 14 – 26, 28 – 29 are allowable since the claims are dependent upon the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew C. Lee whose telephone number is (571) 272-3131. The examiner can normally be reached on Monday through Friday from 8:30am - 5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on (571) 272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ACL/

02/28/2007

  
WING CHAN  
SUPERVISORY PATENT EXAMINER